

EXHIBIT C

Moderna's Search Terms, Sources, Dates, and Hits						
#	Moderna's Search Terms	Start Date	End Date	Custodians	Non-Custodial	Hits + Fam.
I-01	(LNP OR (lipid W/1 nanoparticle*)) W/5 (mRNA OR messenger RNA)	2/28/2012	2/28/2022	8	Sharepoint	107,168
I-01.1	((LNP OR (lipid W/1 nanoparticle*)) W/3 (mRNA OR messenger RNA)) AND (ratio* OR (lipid W/2 molar) OR (lipid W/2 content*) OR (lipid W/2 concentration*) OR (lipid W/2 conc) OR (lipid W/2 conc.) OR "##mol\u0025" OR "##mol\u0025" OR licens* OR agreement OR sublicense OR sublicens* OR sub-licens*)	2/28/2012	2/28/2022	HB	N/A	17,564
I-02	(LNP OR (lipid W/1 nanoparticle*)) W/5 siRNA	2/28/2012	2/28/2022	8 + AT	Sharepoint	9,590
I-03	(SM-102 OR SM102 OR SM-000102) W/15 (mRNA-1273 OR Spikevax* OR Elasmomeran*)	2/28/2016	2/28/2022	8 + AT	Sharepoint	12,899
I-04	(SM-102 OR SM102 OR SM-000102) W/10 PEG*	2/28/2016	2/28/2022	8 + AT	Sharepoint	34,634
I-05	(SM-102 OR SM102 OR SM-000102) W/10 cholesterol	2/28/2016	2/28/2022	8 + AT	Sharepoint	23,293
I-06	(SM-102 OR SM102 OR SM-000102) W/10 DSPC	2/28/2016	2/28/2022	8 + AT	Sharepoint	28,360
I-07	(SM-102 OR SM102 OR SM-000102) W/15 "##mol\u0025"	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	7,605
I-08	(SM-102 OR SM102 OR SM-000102) W/15 (molar ratio OR lipid ratio OR ratio of lipids)	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	1,471
I-09	(SM-102 OR SM102 OR SM-000102) W/15 (lipid W/2 ratio)	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	3,409
I-10	(SM-102 OR SM102 OR SM-000102) W/10 (stability OR (tissue W/2 clearance) OR (mRNA W/2 delivery))	2/28/2016	2/28/2022	8 + AT	Sharepoint	11,995
I-11	(SM-102 OR SM102 OR SM-000102) W/3 (mRNA OR messenger RNA)	2/28/2016	2/28/2022	8	Sharepoint	22,806
I-12	(SM-102 OR SM102 OR SM-000102) W/7 (LNP OR (lipid W/1 nanoparticle*))	2/28/2016	2/28/2022	8 + AT	Sharepoint	33,962
I-13	(SM-102 OR SM102 OR SM-000102) W/10 (MC3 OR Dlin-MC3-DMA)	2/28/2016	2/28/2022	8 + AT	Sharepoint	21,796
I-14	(MC3 OR Dlin-MC3-DMA) W/5 ((plasmid W/2 DNA) OR siRNA OR mRNA)	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	29,372
I-15	(entrap* OR encapsulat*) W/3 (assay* OR test* OR stud* OR efficienc* OR rate OR percent*)	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	33,472
I-16	fully W/3 encapsulat*	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	616
I-17	(Inex OR Protiva OR Genevant OR Tekmira OR Arbutus) W/10 (lipid OR LNP OR mRNA OR siRNA OR ratio* OR patent* OR (intellectual W/1 propert*) OR IP OR licens* OR agreement OR sublicense* OR sub-licens*)	2/28/2012	2/28/2022	8 + AT + HB	Sharepoint	3,840
I-18	(Acuitas OR AlCana OR Alnylam) W/5 (lipid OR LNP OR mRNA OR siRNA OR ratio* OR patent* OR (intellectual W/1 propert*) OR IP OR licens* OR agreement OR sublicens* OR sub-licens*)	2/28/2012	2/28/2022	8 + AT + HB	Sharepoint	7,149
I-19	((cation* OR ioniz*) W/2 lipid) W/5 (mRNA OR siRNA)	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	14,640
I-20	lipid W/10 (licens* OR agreement OR sublicense OR sublicens* OR sub-licens*)	2/28/2012	2/28/2022	8 + AT + HB	Sharepoint	4,676
I-21	(LNP OR (lipid W/1 nanoparticle*)) W/10 (licens* OR agreement OR sublicense OR sublicens* OR sub-licens*)	2/28/2012	2/28/2022	8 + AT + HB	Sharepoint	6,202
I-22	(* .gov OR *.mil) AND (52-227* OR "authorization and consent") AND (COVID* OR SARS-CoV-2 OR "mRNA-1273")	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	683
I-23	(* .gov OR *.mil) AND "28 U.S.C. § 1498"	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	500
I-24	W58P05-22-C-0017 OR (*0017 W/2 contract)	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	4
I-25	W911QY20C0100 OR (*0100 W/2 contract)	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	1,617
I-26	75A50120C00034 OR (*0034 W/2 contract)	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	8,436
I-27	11,141,378 OR 11141378 OR 11,141,378* OR 11141378* OR ((pat OR pat* OR patent*) W/3 378) OR pat11141378*	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	66
I-28	8,058,069 OR 8058069 OR 8,058,069* OR 8058069* OR ((pat OR pat* OR patent*) W/3 069) OR pat8058069*	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	209
I-29	8,492,359 OR 8492359 OR 8,492,359* OR 8492359* OR ((pat OR pat* OR patent*) W/3 359) OR pat8492359*	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	486
I-30	8,822,668 OR 8822668 OR 8,822,668* OR 8822668* OR ((pat OR pat* OR patent*) W/3 668) OR pat8822668*	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	214
I-31	9,364,435 OR 9364435 OR 9,364,435* OR 9364435* OR ((pat OR pat* OR patent*) W/3 435) OR pat9364435*	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	445
I-32	9,504,651 OR 9504651 OR 9,504,651* OR 9504651* OR ((pat OR pat* OR patent*) W/3 651) OR pat9504651*	2/28/2016	2/28/2022	8 + AT + HB	Sharepoint	101
II-01	W911QY20C0100 OR (*100 W/3 (contract OR agreement))	12/1/2019	present	AT + HB	N/A	3,383

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II-02	W58P05-22-C-0017 OR (*17 W/3 (contract OR agreement))	12/1/2019	present	AT + HB	N/A	5,451
II-03	(booster OR bivalent OR legacy OR prime) W/3 (agreement OR contract)	12/1/2019	present	AT + HB	N/A	8,673
II-04	1498 W/30 (patent OR clause OR agreement OR contract)	12/1/2019	present	AT + HB	N/A	1,034
II-05	52-227*	12/1/2019	present	AT + HB	N/A	1,764
II-06	52227*	12/1/2019	present	AT + HB	N/A	547
II-07	*hhs.gov	12/1/2019	2/28/2022	AT	N/A	1,317
II-07.1	*hhs.gov AND (mRNA-1273* OR (mRNA W/1 1273*) OR Spikevax* OR Elasomeran* OR COVID* OR lipid OR LNP OR Corbett OR BARDA OR stopwatch OR NIH [REDACTED])	12/1/2019	2/28/2022	HB	N/A	32,045
II-08	*army.mil	12/1/2019	present	AT + HB	N/A	2,846
II-09	*mail.mil	12/1/2019	present	AT + HB	N/A	7,518
II-10	"authorization and consent"	12/1/2019	present	AT + HB	N/A	1,269
II-11	patent indem*	12/1/2019	present	AT + HB	N/A	990
II-12	Section 1498	12/1/2019	present	AT + HB	N/A	2
III-01	(Emergency Use Authorization OR EUA OR ((BLA OR Biologics License) W/5 125752*) OR ((IND OR Investigational New Drug) W/5 19745*)) AND (((lipid* OR LNP*) W/5 (molar* OR target* OR chang* OR approv* OR composit* OR formulat*)) OR ((chang* OR target* OR approv*) W/5 (PEG* OR ratio* OR ""##mol\u0025"" OR ""##mol\u0025"" OR batch* OR encapsulat*)) OR patent*)	12/1/2019	2/28/2022	10	Sharepoint	17,953
III-01.1	(Emergency Use Authorization OR EUA OR ((BLA OR Biologics License) W/5 125752*) OR ((IND OR Investigational New Drug) W/5 19745*)) AND (licens* OR sublicense* OR sub-licens* OR infrng*)	12/1/2019	2/28/2022	10	Sharepoint	50,403
III-02	(PEG* OR DSPC OR cholesterol OR chol. OR chol OR phospholipid OR phos. OR phos OR cation* OR ioniz*) W/5 (ratio* OR molar OR content* OR concentra* OR conc. OR concs. OR conc OR ""##mol\u0025")	2/28/2012	2/28/2022	10	Sharepoint	77,480
III-03	(mRNA-1273* OR (mRNA W/1 1273*) OR Spikevax* OR Elasomeran*) W/8 (ratio* OR molar OR lipid content* OR lipid conc* OR ""##mol\u0025"" OR patent* OR intellectual propert* OR IP OR licens* OR agreement OR sublicens* OR infrng* OR entrap* OR encapsulat* OR sub-licens* OR Inex OR Protiva OR Genevant OR Tekmira OR Arbutus OR Acuitas OR AICana OR Alnylam)	12/1/2019	2/28/2022	10	Sharepoint	34,813
III-04	[REDACTED]	2/28/2016	2/28/2022	10	Sharepoint	45,874
III-05	(mRNA* OR messenger RNA) W/5 (encapsulat* OR deliver*) AND (mRNA* OR messenger RNA) W/5 (challeng* OR difficul* OR hurdl* OR barrier OR barriers OR important* OR significan* OR key OR critical* OR overcom*)	1/1/2011	2/28/2022	10	Sharepoint	36,910
III-06	[REDACTED] OR platform process) W/5 ((ratio* OR (lipid W/2 molar) OR (lipid W/2 content) OR (lipid W/2 concentration) OR mol""##mol\u0025"" OR encapsulat*))	2/28/2012	2/28/2022	10	Sharepoint	225
III-07	(*eop.gov OR *advancedvllc.com OR Advanced Decision Vectors OR *whitehouse.gov OR Operation Warp Speed OR OWS OR [REDACTED] OR RxCrossroads) AND (mRNA-1273* OR (mRNA W/1 1273*) OR Spikevax* OR Elasomeran*)	2/28/2016	2/28/2022	10	Sharepoint	58,655
III-08	SNALP* OR stable nucleic acid-lipid particle OR stable nucleic acid-lipid particles OR SPLP* OR stable plasmid lipid particle OR stable plasmid lipid particles	1/1/2011	2/28/2022	10	Sharepoint	5,045
III-09	(Mark W/2 Murray) OR (Ian W/2 MacLachlan) OR ((Antonin OR Tony) W/3 Fougerolles))	2/28/2016	2/28/2022	10	Sharepoint	384

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III-10	[REDACTED]	12/1/2019	2/28/2022	10	Sharepoint	17,399
TOTAL:						308,911